

# Gibbons Meadows Summary Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.4. Operations Emissions Compared Against Thresholds
6. Climate Risk Detailed Report
  - 6.2. Initial Climate Risk Scores
  - 6.3. Adjusted Climate Risk Scores
7. Health and Equity Details
  - 7.3. Overall Health & Equity Scores
  - 7.5. Evaluation Scorecard

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Gibbons Meadows
Construction Start Date	3/4/2024
Operational Year	2025
Lead Agency	Sacramento Coutny
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	39.2
Location	5601 Gibbons Dr, Carmichael, CA 95608, USA
County	Sacramento
City	Unincorporated
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	619
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
------------------	------	------	-------------	-----------------------	------------------------	--------------------------------	------------	-------------

Single Family Housing	20.0	Dwelling Unit	0.17	2,000	234,257	—	56.0	—
-----------------------	------	---------------	------	-------	---------	---	------	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-5	Use Advanced Engine Tiers
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-2	Require Energy Efficient Appliances
Energy	E-7*	Require Higher Efficacy Public Street and Area Lighting
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Energy	E-12-A	Install Alternative Type of Water Heater in Place of Gas Storage Tank Heater in Residences
Energy	E-12-B	Install Electric Space Heater in Place of Natural Gas Heaters in Residences
Energy	E-25*	Install Electric Heat Pumps
Water	W-4	Require Low-Flow Water Fixtures

\* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
---------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.72	3.90	5.74	7.49	0.01	0.26	0.18	0.39	0.24	0.04	0.26	—	1,451	1,451	0.06	0.02	0.83	1,460
Mit.	0.72	3.90	5.74	7.49	0.01	0.26	0.18	0.39	0.24	0.04	0.26	—	1,451	1,451	0.06	0.02	0.83	1,460
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.44	1.22	11.4	11.1	0.02	0.53	5.39	5.92	0.49	2.59	3.08	—	1,790	1,790	0.07	0.02	0.01	1,797
Mit.	1.16	0.99	10.6	11.3	0.02	0.40	5.39	5.79	0.37	2.59	2.96	—	1,790	1,790	0.07	0.02	0.01	1,797
% Reduced	19%	19%	7%	-2%	—	25%	—	2%	25%	—	4%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.22	0.24	1.79	2.28	< 0.005	0.08	0.06	0.14	0.07	0.02	0.09	—	437	437	0.02	0.01	0.07	439
Mit.	0.22	0.23	1.77	2.28	< 0.005	0.08	0.06	0.14	0.07	0.02	0.09	—	437	437	0.02	0.01	0.07	439
% Reduced	3%	2%	1%	—	—	3%	—	2%	3%	—	3%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.04	0.33	0.42	< 0.005	0.01	0.01	0.03	0.01	< 0.005	0.02	—	72.3	72.3	< 0.005	< 0.005	0.01	72.7
Mit.	0.04	0.04	0.32	0.42	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.02	—	72.3	72.3	< 0.005	< 0.005	0.01	72.7
% Reduced	3%	2%	1%	> -0.5%	—	3%	—	2%	3%	—	3%	—	—	—	—	—	—	—

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
---------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.16	1.10	1.18	10.7	0.02	0.03	1.70	1.73	0.03	0.43	0.46	8.60	2,513	2,522	0.83	0.09	7.95	2,577
Mit.	1.15	1.09	1.13	10.7	0.02	0.03	1.70	1.73	0.03	0.43	0.46	8.57	2,348	2,356	0.82	0.09	7.95	2,411
% Reduced	1%	< 0.5%	5%	< 0.5%	—	14%	—	< 0.5%	14%	—	1%	< 0.5%	7%	7%	1%	—	—	6%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.96	0.90	1.34	7.92	0.02	0.03	1.70	1.73	0.03	0.43	0.46	8.60	2,327	2,335	0.84	0.10	0.22	2,385
Mit.	0.95	0.90	1.29	7.90	0.02	0.03	1.70	1.72	0.03	0.43	0.46	8.57	2,161	2,170	0.83	0.10	0.22	2,219
% Reduced	1%	< 0.5%	4%	< 0.5%	—	14%	—	< 0.5%	14%	—	1%	< 0.5%	7%	7%	1%	—	—	7%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.01	0.95	1.25	8.48	0.02	0.03	1.62	1.65	0.03	0.41	0.44	8.60	2,323	2,332	0.83	0.09	3.36	2,383
Mit.	1.01	0.95	1.20	8.46	0.02	0.03	1.62	1.65	0.03	0.41	0.44	8.57	2,158	2,166	0.82	0.09	3.36	2,217
% Reduced	1%	< 0.5%	4%	< 0.5%	—	14%	—	< 0.5%	14%	—	1%	< 0.5%	7%	7%	1%	—	—	7%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.18	0.17	0.23	1.55	< 0.005	0.01	0.30	0.30	0.01	0.08	0.08	1.42	385	386	0.14	0.01	0.56	394
Mit.	0.18	0.17	0.22	1.54	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	1.42	357	359	0.14	0.01	0.56	367
% Reduced	1%	< 0.5%	4%	< 0.5%	2%	14%	—	< 0.5%	14%	—	1%	< 0.5%	7%	7%	1%	1%	—	7%
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	1.00	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—	—	—

Mit.	—	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—	—	—
------	---	---	---	---	---	----	---	---	---	---	---	---	---	---	---	---	---	---

## 6. Climate Risk Detailed Report

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	2	1
Extreme Precipitation	1	1	2	1
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	2	1
Flooding	1	1	2	1
Drought	1	1	1	2

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 7. Health and Equity Details

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	47.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.